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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/465,980	12/16/1999	BARTLEY H. CALDER	SUN1P502	9641
22434 7	7590 06/14/2005		EXAMINER	
BEYER WEAVER & THOMAS LLP			VO, LILIAN	
P.O. BOX 70250 OAKLAND, CA 94612-0250			AŖT UNIT	PAPER NUMBER
			2195	
			DATE MAILED: 06/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commence	09/465,980	CALDER ET AL.			
Office Action Summary	Examiner	Art Unit			
The SMAIL INC DATE of this communication and	Lilian Vo	2195			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 1) Responsive to communication(s) filed on 27 April 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ☐ Claim(s) 1 - 48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 - 48 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/2/05.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

1. Claims 1 - 48 are pending.

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/27/05 has been entered.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 4. Claims 1-14 and 21-33 are rejected under 35 U.S.C. 101 because they are directed to non-statutory subject matter.
- 5. Claims 1 2 lack utility and is non-statutory as not being tangibly embodied in a manner to as to be executable.
- 6. Claims 3 14 are directed to method steps, which can be practiced mentally in conjunction with pen and paper, therefore they are directed to non-statutory subject matter.
 Specifically, as claimed, it is uncertain what performs each of the claimed method steps.

Moreover, each of the claimed steps, inter alias, receiving, initiating, pausing, starting, requesting, determining, can be practiced mentally in conjunctions with pen and paper. The claimed steps do not define a machine or computer implemented process [see MPEP 2106]. Therefore, the claimed invention is directed to non-statutory subject matter. (The examiner suggests applicant to change "method" to "computer implemented method" in the preamble to overcome the outstanding 35 U.S.C. 101 rejection).

7. Regarding claims 21 - 33, the system is at best a software system, per se, failing to be tangibly embodied or include any recited hardware as part of the system.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1, 3 and 4 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 2, 3, 4 and 7 - 12 of U.S. Patent No. 6,874,145.

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Although the conflicting claims are not identical, they are not patentably distinct from each other. The examiner can ascertain no difference between the claims of the present application and that of U.S. Patent 6,774,145. The claims appear to be substantially the same or duplicate or in some instance obvious over one another. For example, claims 1, 3 and 4, functions and/or concepts performed by the steps are the same as the steps of claims 2, 3, 4 and 7 - 12 of U.S. Patent 6,774,145.

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10. Claims 34 and 44 - 46 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 18 and 35 - 37 of U.S. Patent No. 6,701,334.

Although the conflicting claims are not identical, they are not patentably distinct from each other. The examiner can ascertain no difference between the claims of the present application and that of U.S. Patent 6,701,334. The claims appear to be substantially the same or duplicate or in some instance obvious over one another. For example, claims 34 and 44 - 46, functions and/or concepts performed by the steps are the same as the steps of claims 18 and 35 -37 of U.S. Patent 6,701,334.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 12. Claims 1 30, 34 41 and 43 48 are rejected under 35 U.S.C. 102(e) as being anticipated by Judge et al. (US 6,430,570, hereinafter Judge).
- 13. Regarding **claim 1**, Judge discloses a computer program product for managing execution of an application according to a lifecycle (col. 2, lines 29 42, col. 7, lines 12 18), the computer program product comprising a computer readable medium storing computer-readable instructions thereon, the computer-readable instructions including:

instructions for receiving a state change request from the application, the state change request indicating a request from an application manager initiate a change in state of the application from a first state to a second state (col. 4, lines 24 – 25, 38 - col. 5, line 14: application manager provides downloading, starting, stopping, querying, and memory management capabilities. Col. 9, lines 5 – 40: if a request is a startAppl() request, the application is start. Col. 11, lines 9 – 12 and col. 13, lines 7 - 35); and

instructions for initiating the state change of the application in response to the state change request received from the application when the second state is an allowable state according to a specified set of rules (col. 2, lines 29 – 42, col. 9, lines 3 – 40, and fig. 4).

14. Regarding claim 2, Judge discloses that the second state is an active state indicating that the application is currently executing (col. 9, lines 19 - 21).

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15. Regarding claim 3, Judge discloses a method of managing execution of an application according to a lifecycle (col. 2, lines 29 – 42, col. 7, lines 12 - 18), comprising:

receiving a signal indicating that a new service is selected (col. 9, lines 3 - 6);

initiating execution of the application when the new service is selected such that the application enters an active state (col. 3, lines 57 - 61, col. 9, lines 19 - 21: startAppl());

pausing execution of the application such that the application enters a paused state from the active state (col. 4, lines 24 – 25, col. 9, lines 19 – 21: stopAppl());

receiving a resume request from the application that has been paused indicating that the application wishes to resume execution and enter the active state from the paused state (col. 4, lines 24 - 25, col. 7, line 66 - col. 8, line 36); and

starting execution of the application from which the resume request was received such that the application enters the active state from the paused state when the resume request is received from the application (col. 4, lines 24 - 25, col. 8, line 32 - 33, col. 9, lines 3 - 40).

Regarding claim 4, Judge discloses a method of managing execution of an application according to a lifecycle (col. 2, lines 29 – 42, col. 7, lines 12 - 18), comprising:

initiating execution of each one of the plurality of applications such that the plurality of applications enter an active state (col. 3, lines 57 - 61, col. 9, lines 10 - 24);

pausing execution of one of the applications such that the application enters a paused state from the active state (col. 4, lines 24 - 25, col. 9, lines 10 - 24);

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receiving a resume request from the one of the applications that has been paused, the resume request indicating that the application request to resume execution and enter the active state from the paused state (col. 4, lines 24 – 25, col. 7, line 66 – col. 8, line 36); and

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starting execution of the application from which the resume request was received such that the application enters the active state from the paused state in response to receiving the resume request from the application (col. 4, lines 24 – 25, col. 8, line 32 – 33, col. 9, lines 3 - 40).

17. Regarding claim 5, Judge discloses a method of managing execution of an application according to a lifecycle (col. 2, lines 29 – 42, col. 7, lines 12 - 18), comprising:

requesting a first time that the application changes its state from a first state to a second state by sending a request to the application, wherein the request is a conditional request that is conditional upon the application's decision to change from the first state to the second state (col. 4, lines 24 - 25, col. 9, lines 3 - 40);

determining whether the application has changed its state from the first state to the second state (col. 13, line 36 – col. 14, line 14); and

instructions for requesting a second time that the application change its change its state from the first state to the second state (col. 4, lines 24 - 25, col. 9, lines 3 - 40); and

requesting a second time that the application change its state from the first state to the second state when it is determined that the application has not changed its state from the first state to the second state and a predetermined condition is satisfied (col. 4, lines 24 - 25, col. 13, lines 8 - 35).

18. Regarding claim 6, Judge discloses the predetermined condition indicates that specified period of time has elapsed or that the application is now able to perform the request state change (col. 13, lines 29 - 35).

- 19. Regarding **claim** 7, Judge discloses wherein it is determined that the application has not changed its state when a state change exception is raised by the application (col. 13, line 64 col. 14, line 1).
- 20. Regarding **claim 8**, Judge discloses wherein it is determined that the application has not changed its state when the application rejects the requested state change (col. 13, line 64 col. 14, line 1).
- 21. Regarding **claim 9**, Judge discloses wherein it is determined that the application has not changed its state when the application is unable to perform requested state change (col. 13, lines 31 –32, 64 col. 14, line 1).
- 22. Regarding claim 10, Judge discloses a method of managing execution of an application according to a lifecycle (col. 2, lines 29 42, col. 7, lines 12 18), comprising:

requesting that the application, change its state from a first state to a second state by sending a request to the application, wherein the request is a conditional request that is

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conditional upon the application's decision to change from the first state to the second state (col. 4, lines 24 - 25, col. 9, lines 3 - 40);

determining whether the application change its state from the first state to the second state (col. 4, lines 24 - 25, col. 9, lines 3 - 40); and

requesting that the application change its state from the first state to a third state when it is determined that the application has not changed its state from the first state to the second state .

(col. 4, lines 24 – 25, col. 13, line 36 – col. 14, line 14).

- Regarding claim 11, Judge discloses the active state, the destroyed state and the paused state (col. 9, lines 3-40).
- 24. Claims 12 20 are rejected on the same ground as stated in claims 7 11 above.
- 25. Regarding claim 21, Judge discloses a system for managing execution of an application according to an application lifecycle (col. 2, lines 29 42), the system comprising:

one or more rules (col. 2, lines 29 - 42, col. 9, lines 3 - 10, and fig 4);

an application manager capable of executing one or more applications according to an application lifecycle enabling each of the applications to enter one of a plurality of states in response to one or more associated predetermined commands (col. 2, lines 29 – 42, col. 4, lines 38 – 67, figs. 1, 2), the application manager capable of selecting one of the predetermined commands to execute according to the one or more rules (col. 2, lines 29 – 42, col. 9, lines 3 – 10, and fig. 4).

26. Regarding claim 22, Judge discloses the system as recited in claim 21, further comprising:

a signaling monitor coupled to the application manager and capable of receiving a data stream, the signal monitor adapted for determining whether an application is present in the data stream and communicating information associated with the application to the application manager (col. 3, lines 22 – 40, 57 – col. 4, line 9, col. 6, lines 5 – 15. col. 9, lines 3 – 40, figs. 2 and 4).

- 27. Regarding claim 23, Judge discloses the system as recited in claim 21, wherein the application manager is configured to store an application context for each of the applications, the application context identifying a current one of the plurality of states (co. 7, lines 12 27).
- 28. Regarding claim 24, Judge discloses the system as recited in claim 23, wherein the current one of the plurality of states is identified by the associated application to the application manager (col. 7, lines 12-27).
- Regarding claim 25, Judge discloses the system as recited in claim 23, wherein the application context further identifies a class loader capable of loading one or more classes associated with the application (col. 3, line 3, line 5 col. 4, line 9, col. 10, line 46 col. 11, line 58, col. 13, lines 46 52, figs. 3, 4 and 6).

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30. Regarding claim 26, Judge discloses the system as recited in claim 23, wherein the application context further identifies a display context including display information to be displayed (col. 5, line 64 – col. 6, line 4, col. 11, lines 9 – 58, col. 12, lines 1 – 15, and 55 – 67).

- Regarding **claim 27**, Judge discloses the system as recited in claim 23, wherein the application context further identifies an application environment object enabling the associated application to communicate with the application manager (col. 4, lines 38 67, col. 5, lines 33 36, col. 7, lines 13 27, fig. 6).
- Regarding **claim 28**, Judge discloses the system as recited in claim 23, wherein the application context further identifies an application environment object that enables the associated application to retrieve properties associated with its runtime environment (col. 4, line 38 col. 5, line 14, 33 –36, col. 7, lines 13 27, figs. 4 and 6).
- Regarding claim 29, Judge discloses the system as recited in claim 23, wherein the application context further identifies an application environment object that enables the associated application to communicate a state change to one of the plurality of states (col. 4, line 38 col. 5, line 14, 33 –36, col. 7, lines 13 27, figs. 4 and 6).
- 34. Regarding claim 30, Judge discloses the system as recited in claim 23, wherein the application context further identifies an application environment object that enables the

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associated application to request that the application manager change the current state of the application from a paused state to an active state (col. 8, lines 25 – 36, col. 9, lines 2 – 40, fig. 4).

35. Regarding **claim 34**, Judge discloses a digital television receiver for managing execution of an application according to a life cycle, comprising:

a processor (col. 3, lines 9 - 15, fig. 1); and

instructions including:

instructions for determining from a data stream whether an application is present in the data stream (col. 3, lines 22 - 40, 57 - col. 4, line 9, col. 6, lines 5 - 15. col. 9, lines 3 - 40, figs. 2 and 4);

instruction for loading an application when it is determined that an application is present in the data stream (col. 3, line 3, line 5 – col. 4, line 9, col. 10, line 46 – col. 11, line 58, col. 13, lines 46 - 52, figs. 3, 4 and 6); and

instructions for executing the loaded application according to the lifecycle, the lifecycle including a plurality of states (col. 4, lines 24 - 25, col. 9, lines 3 - 40).

36. Regarding claim 35, Judge discloses the instructions for executing the application comprises:

a first interface that is visible to an application manager, the first interface adapted for enabling the application manager to cause the application to change from one of the plurality of states to another one of the plurality of states (col. 3, lines 22 – 41, col. 7, line 67 – col. 8, line 19, figs. 1, 4, 6 and 7); and

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a second interface that is visible to the application, the second interface adapted for enabling the application to communicate to the application manager, state change of the application from one of a first set of the plurality of states to one of a second set of the plurality of states (col. 3, lines 22 – 41, col. 7, line 67 – col. 8, line 19, col. 13, lines 64 – 66, figs. 1, 4, 6, 7 and 9).

- 37. Claims 36 41 are rejected on the same ground as stated in claims 7 9, 11 and 35 above.
- Regarding claim 43, Judge discloses the instructions for releasing memory associated with the application when the application has been terminated (col. 7, lines 19 27, col. 8, lines 1 22, col. 9, lines 41 51).

39. Regarding claim 44, Judge discloses the

instructions for creating a class loader associated with each application such that a class loader is associated with the application, the class loader being adapted for loading one or more classes associated with the application (figs. 2 - 4, col. 3, lines 22 - 55);

instructions for employing the class loader to load the classes associated with the application (col. 4, lines 4-23); and

instructions for instantiating the application using the classes that have been loaded by the class loader (fig. 3, col. 4, lines 1-23).

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Regarding claim 45, Judge discloses the instruction for unloading the classes associated with the application when the application is terminated (col. 8, lines 1-22).

- Regarding claim 46, Judge discloses the instruction for de-reference the class loader (col. 9, lines 41 51, col. 13, line 64 col. 14, line 14).
- 42. Claim 47 is rejected on the same ground as stated in claim 11 above.
- Regarding claim 48, Judge discloses the request includes a parameter, the parameter when in a one state indicating that the state change is conditional (col. 13, lines 8 28: "a stop operation begins ... instance to terminated") and unconditional when in the other state (col. 13, lines 29 35: "stopping an ApplBase 514 ... termination by calling stop ()").

Claim Rejections - 35 USC § 103

- 44. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 31 33 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Judge et al. (US 6,430,570, hereinafter Judge).

46. Regarding **claim 31**, Judge discloses that a display manager coupled to the application manager and adapted for managing a display context for each of the applications (figs. 1 – 2, col. 3, line 22 – col. 4, line 9, 24 - 35). Judge however did not clearly disclose the display context being in a first state when the display context is visible and being in a second state when the display context is invisible. Instead, Judge discloses the managing of application execution according to a life cycle in which application enters active state and paused state (col. 4, lines 24 – 25, col. 7, lines 12 – 18). It would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to recognize the teaching of display context can be visible and invisible because when the application is in active state, output/result associated with its functions are to be displayed. On the other hand, when the application is in the paused state (inactive), there is nothing to be displayed, thus invisible.

- Regarding claim 32, Judge discloses that display context is in the first state when the application is in an active state and in the second state when the application is in a paused state (col. 3, lines 57 61, col. 4, lines 24 25).
- 48. Regarding claim 33, Judge discloses that the state display context is determined according to the one or more rules followed by the application manager (col. 2, lines 29 42, col. 9, lines 3 40, and fig. 4).
- 49. Regarding claim 42, Judge discloses the instructions enabling the application to raise a state change exception indicating that the application does not want to change its state as the

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application manager has requested (col. 7, line 5 – col. 8, line 1 - 36: when application manager attempt to have applications continue to execute in low or no memory situations, an OutOfMemoryError is generated during the execution if out of memory occurs. Thus, this indicates that the applications cannot continue to execute as the application manager requested).

Response to Arguments

- 50. Applicant's arguments filed 4/27/05 have been fully considered but they are not persuasive for the reason set forth above and below.
- In response to applicant's argument (page 12, 5th paragraph) that the reference fails to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the applicant may control e.g. initiate or prevent its own state change) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Furthermore, applicant's arguments (page 12, 5th paragraph) fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

52. With respect to applicant's remark that Judge indicates such requests may be received from a client and not the application (page 13, 3rd paragraph), the examiner disagrees. A client is

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also run and/or operates with application program. In this case, Judge clearly discloses that a user request from client user application such as client user class ApplClientU 516 to client application Applclient 508 (col. 11, lines 9 – 12 and col. 13, lines 7 – 12).

- Regarding applicant's remarks that "the parameter does not indicate whether the termination is conditional or unconditional" (page 13, 4th paragraph), the examiner would like to point out that the claim did not recite or mention anything about the termination of the application. With respect to applicant's remarks, the application that is terminated is depending on the passing parameter. In other words, the application is conditionally changing to a different state according to the receiving parameter. Therefore, Judge clearly recites that the application is conditionally changing from one state to another.
- Applicant's arguments with respect to claims 10, 15, 19, 20, 21, 27 42 fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.
- With respect to applicant's argument Judge fails to disclose or suggest a mechanism for enabling an application to communicate with an application manager, either in the form of informing the application manager of its state change or submitting a request for its state change (page 14, 3rd 4th paragraph and page 15, 1st paragraph), applicant is directed to the similar responses as addressed to claim 1 above.

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Regarding applicant's argument that Judge fails to disclose a display context as claimed 56. in claims 31 – 33 (page 14, 3rd paragraph and page 16, last paragraph – page 17, 1st paragraph), the examiner disagrees. As stated in the rejection above, Judge discloses the managing of application execution according to a life cycle in which application enters active state and paused state (col. 4, lines 24 - 25, col. 7, lines 12 - 18). It would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to recognize the teaching of display context can be visible and invisible because when the application is in active state, output/result associated with its functions are to be displayed. On the other hand, when the application is in the paused state (inactive), there is nothing to be displayed, thus invisible.

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Regarding applicant's argument that Judge fails to disclose two different interfaces as 57. claimed (page 14, 4th paragraph), the examiner disagrees. The claims recite two interfaces in which one is adapted for enabling the application manager to cause the application to change its state and the other one is adapted for enabling the application to communicate to the application manager. In other words, the interfaces enable the communication between the application manager and the application. Judge clearly discloses the back and forth communication between the application manger and the application throughout his disclosure. Therefore, the interfaces as claimed are considered inherent, as it is necessary to provide such communication between the application manager and the application running.

In response to applicant's arguments that Judge neither discloses nor suggests constructing a class loader for an application (page 15, last paragraph), the examiner disagrees.

Judge discloses that application 26 is brought to life after it has been loaded by the class loader (col. 4, lines 4-23). The step of constructing a class loader is considered inherent because in order for the class loader to load the application, it has to be constructed/instantiated to be existed. Furthermore, the claim languages clearly recite one application, thus a single class loader for the application can read into the claim.

In response to applicant's argument that the reference fails to show certain features of applicant's invention (page 16, 1st paragraph), it is noted that the features upon which applicant relies (i.e constructing a plurality of class loaders) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's argument that Judge fails to disclose or suggest de-referencing the class loader when execution of the application ends (page 16, 2^{nd} paragraph), the examiner disagrees. Judge discloses that application manager removes references to objects that are to be unloaded and caused the unreferenced objects to be removed from the application cache by calling the java runtime gc() method (col. 9, lines 41 - 51, col. 13, line 64 - col. 14, line 14). In other words, when the objects are being unloaded, they are also dereferencing the class loader at the same time in order for the garbage collection to be performed (col. 8, lines 59 - 66).

In response to applicant's argument that the reference fails to show certain features of applicant's invention (page 15, 1st paragraph line 5), it is noted that the features upon which applicant relies (i.e application manager dereferencing a class loader) are not recited in the

rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPO2d 1057 (Fed. Cir. 1993).

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59. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning (page 16, 5th paragraph), it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Conclusion

Any inquiry concerning this communication or earlier communications from the 60. examiner should be directed to Lilian Vo whose telephone number is 571-272-3774. The examiner can normally be reached on Monday - Thursday, 7:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist at 571-272-2100.

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June 9, 2005

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